

**Important !**

Disconnect power to the main board before making any changes to DIP switches/ Jumpers, wiring the unit and/or connecting the wall panel.

**Digital Inputs**

**1. DI1,0 – Digital Input**

Normally open (N.O.) Active when close.

Only for indication through communication.

**2. DI2,0 DI3,0 DI4,0 -**

Device Instance Number ( DIN)

| DI2   | DI3   | DI4   | DIN           |
|-------|-------|-------|---------------|
| Open  | Open  | Open  | EEPROM        |
| Short | Open  | Open  | DIN= MAC+1200 |
| Open  | Short | Open  | DIN= MAC+1000 |
| Short | Short | Open  | DIN= MAC+800  |
| Open  | Open  | Short | DIN= MAC+600  |
| Short | Open  | Short | DIN= MAC+400  |
| Open  | Short | Short | DIN= MAC+200  |
| Short | Short | Short | DIN=MAC       |

MAC Address (DIP switch S1)

**3. DI5,0 - 3.5 Minutes delay for compressor**

Open – With delay

Close – Without delay (for test only)

**4. DI6,0 - Indoor Fan: 1 Speed / 3 Speeds**

Open – 3 Speeds

Close – 1 Speed

**5. DI7,0 - Heat Pump configuration**

Normally close (N.C.)

Open – Heat Pump active in Cool

Close – Heat Pump active in Heat

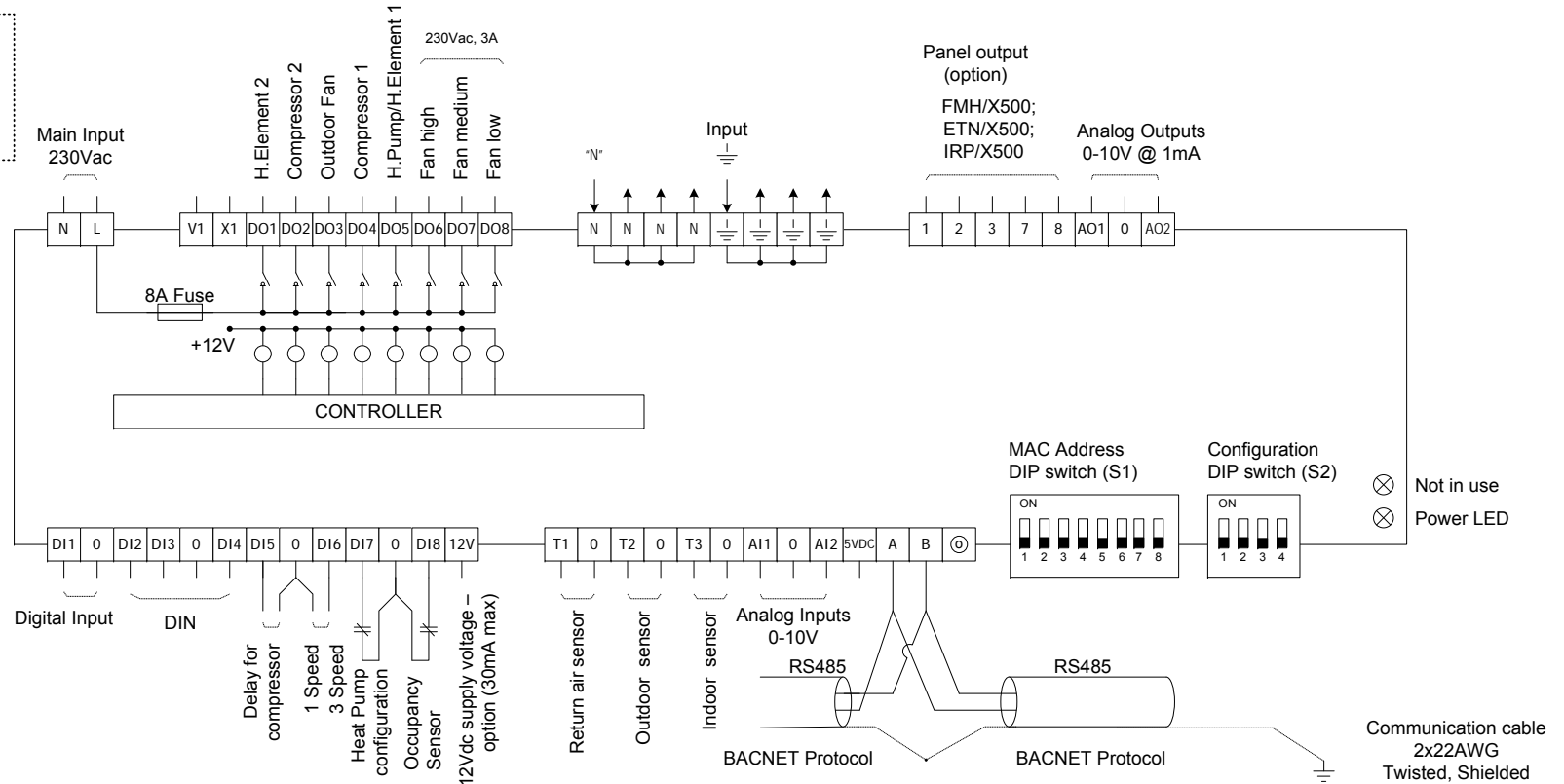
**6. DI8,0 - Occupancy Sensor**

One of 3 modes (set by communication):

1 Auto: When the DI8 input (N.C) is open for 10 minutes, all outputs turn Off.(Default)

2 Start/Stop

3 Occupied/Non occupied (Economy mode)



**DIP switch Configuration (S2)**

**S2.1 – HC (Heat–Cool) or HP (Heat Pump)**

ON - In HP configuration  
OFF - In HC configuration

**S2.2 – Electric Heater or Oil/Gas Heater (in HC)**

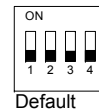
ON - Oil/Gas  
OFF - Electric

**S2.3 –**

ON - °F  
OFF - °C

**S2.4 – “End of network” configuration**

ON - End of network  
OFF - Not end of network



**Temperature Sensors Logic**

**T1,0 - Return air sensor**

**T2,0 -Outdoor sensor**

**T3,0 - Indoor sensor**

**Deicing (Compressor and outdoor fan are inactive)**

In Heat mode:

-0°C/°F < T2 < 16°C/61°F → 5 minutes defrost / 22 minutes break

In Cool mode:

-0°C/°F < T3 < 8°C/46.5°F → Deicing occurs until T3 rises above 8°C/46.5°F

**Overheat protection:**

In Heat mode (Compressor, H.Elements and Outdoor fan inactive):

Overheat starts when T3 > 68°C/155°F and stops when T3 < 55°C/131°F

In Cool mode (Compressor, H.Elements, Indoor and Outdoor fans inactive):

Overheat starts when T2 > 68°C/155°F and stops when T2 < 55°C/131°F

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Title:

**CTU2500-AC-SUPER**

Date: 09.11.08

1

Original

09.11.08

Print name: PS-2600-ASU

Drawn: M.Ruchansky

Software name:

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Approved: E.Roy

File: CTU2500-AC-SUPER.vsd